



EXPRESS MAIL NO. EV447226189US

Sheet 1 of 8

FORM PTO-1445 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 890057.417C2	APPLICATION NO. 10/824,636
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Kenneth H. Abbott et al.			
		FILING DATE April 14, 2004	GROUP ART UNIT 2173		

### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TH	AA	4,916,441	04/10/90	Gombrich	340	712	
	AB	5,032,083	07/16/91	Friedman	434	112	
	AC	5,201,034	04/06/93	Matsuura et al.	395	155	
	AD	5,208,449	05/04/93	Eastman et al.	235	462	
	AE	5,214,757	05/25/93	Mauney et al.	395	161	
	AF	5,227,614	07/13/93	Danielson et al.	235	380	
	AG	5,335,276	08/02/94	Thompson et al.	380	21	
	AH	5,416,730	05/16/95	Lookofsky et al.	364	708.1	
	AI	5,470,233	11/28/95	Fruchterman et al.	434	112	
↓	AJ	5,493,692	02/20/96	Theimer et al.	455	26.1	

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
TH	AK	WO 90/08361	07/26/90	WIPO		
	AL	5-260188	10/08/93	JP		
	AM	WO 97/03434	01/30/97	WIPO		
	AN	9-091112	04/04/97	JP		
↓	AO	0 823 813 A2	02/11/98	EP		

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

TH	AP	“Affective Understanding,” Modeling and Responding to User Affect,” <a href="http://www.media.mit.edu/affect/AC_research/understanding.html">http://www.media.mit.edu/affect/AC_research/understanding.html</a> , pp. 1-3 [Accessed October 2, 1998].
TH	AQ	“Alps Guidepoint,” <a href="http://www..alps.com/p17.html">http://www..alps.com/p17.html</a> , p.1 [Accessed October 2, 1998].
TH	AR	“GyroPoint Technology,” <a href="http://www.gyration.com/html/gyropoint.html">http://www.gyration.com/html/gyropoint.html</a> , pp. 1-3 [Accessed October 2, 1998].

EXAMINER	<i>Teresa Hall</i>	DATE CONSIDERED
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FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 890057.417C2	APPLICATION NO. 10/824,636
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS			
		Kenneth H. Abbott et al.		FILING DATE April 14, 2004	GROUP ART UNIT 2173

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TH	BA	5,506,580	04/09/96	Whiting et al.	341	51	
	BB	5,544,321	08/06/96	Theimer et al.	395	200.11	
	BC	5,555,376	09/10/96	Theimer et al.	395	200.09	
	BD	5,559,520	09/24/96	Barzegar et al.	342	357	
	BE	5,568,645	10/22/96	Morris et al.	395	800	
	BF	5,601,435	02/11/97	Quy	434	307 R	
	BG	5,603,054	02/11/97	Theimer et al.	395	826	
	BH	5,611,050	03/11/97	Theimer et al.	395	200.09	
	BI	5,642,303	06/24/97	Small et al.	364	705.05	
↓	BJ	5,646,629	07/08/97	Loomis et al.	342	357	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	BK				

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

TH	BL	“Haptics,” <a href="http://www.ai.mit.edu/projects/handarm-haptics/haptics.html">http://www.ai.mit.edu/projects/handarm-haptics/haptics.html</a> , pp. 1-2, [Accessed October 2, 1998].
TH		“Research Areas in Affective Computing,” <a href="http://www.media.mit.edu/affect/">http://www.media.mit.edu/affect/</a> , p. 1 [Accessed October 2, 1998].
TH	BM	“Research on Affective Pattern Recognition and Modeling,” <a href="http://www.mdeia.mit.edu/affect/AC_research/recognizing.html">http://www.mdeia.mit.edu/affect/AC_research/recognizing.html</a> , pp. 1-4 [Accessed October 2, 1998].
TH	BN	“Research on Sensing Human Affect,” <a href="http://www.mdeia.mit.edu/affect/AC_research/sensing.html">http://www.mdeia.mit.edu/affect/AC_research/sensing.html</a> , pp. 1-5 [Accessed October 2, 1998].
TH	BO	“Smart Rooms,” <a href="http://vismod.www.media.mit.edu/vismod/demos/smartroom/">http://vismod.www.media.mit.edu/vismod/demos/smartroom/</a> , pp. 1-3 [Accessed October 2, 1998].

EXAMINER	<i>Tedder H.</i>	DATE CONSIDERED
		3/2/07

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TH	CA	5,719,744	02/17/98	Jenkins et al.	361	683	
	CB	5,726,660	03/10/98	Purdy et al.	342	357	
	CC	5,751,260	05/12/98	Nappi et al.	345	8	
	CD	5,781,913	07/14/98	Felsenstein et al.	707	501	
	CE	5,790,974	08/04/98	Tognazzini	701	204	
	CF	5,798,733	08/25/98	Ethridge	342	357	
	CG	5,812,865	09/22/98	Theimer et al.	395	800	
	CH	5,873,070	02/16/99	Bunte et al.	705	28	
	CI	5,878,274	03/02/99	Kono et al.	395	828	
↓	CJ	5,902,347	05/11/99	Backman et al.	701	200	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	CK				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

TH	CL	“SmartDesk Homepage,” <a href="http://vismod.www.media.mit.edu/vismod/demos/smartdesk/">http://vismod.www.media.mit.edu/vismod/demos/smartdesk/</a> , pp. 1-4 [Accessed October 2, 1998].
TH	CM	“The MIT Wearable Computing Web Page,” <a href="http://wearables.www.mdeia.mit.edu/projects/wearables/">http://wearables.www.mdeia.mit.edu/projects/wearables/</a> , pp. 1-3 [Accessed October 2, 1998].
TH	CN	“Wearable Computing Systems for Affective Computing,” <a href="http://www.media.mit.edu/affect/AC_research/wearables.html">http://www.media.mit.edu/affect/AC_research/wearables.html</a> , pp. 1-5 ; [Accessed October 2, 1998].
TH	CO	Aoki, H., et al., “Realtime Personal Positioning System for a Wearable Computer,” <i>3rd Int'l. Symposium on Wearable Computers</i> , San Francisco, CA, October 18-19, 1999.
TH	CP	Bauer et al., “A Collaborative Wearable System with Remote Sensing,” University of Oregon, February 1996.

EXAMINER <i>Tedessa H. H.</i>	DATE CONSIDERED <i>3/2/07</i>
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TH	DA	5,910,799	06/08/99	Carpenter et al.	345	333	
	DB	5,938,721	08/17/99	Dussell et al.	701	211	
	DC	5,948,041	09/07/99	Abo et al.	701	207	
	DD	5,959,611	09/28/99	Smailagic et al.	345	156	
	DE	5,983,335	11/09/99	Dwyer, II	712	23	
	DF	5,991,687	11/23/99	Hale et al.	701	207	
	DG	6,014,638	01/11/00	Burge et al.	705	27	
	DH	6,047,301	04/04/00	Bjorklund et al.	708	139	
	DI	6,064,943	05/16/00	Clark, Jr. et al.	702	2	
↓	DJ	6,108,197	08/22/00	Janik	361	683	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	DK				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

TH	DL	Billinghurst, M., et al., "New Ways to Manage Information," <i>IEEE</i> , pp. 57-64, January 1999.
TH	DM	Bowskill, J., et al., "Wearable Location Mediated Telecommunications; A First Step Towards Contextual Communication," <i>3rd International Symposium on Wearable Computer</i> , San Francisco, CA, October 18-19, 1999.
TH	DN	Dey, A., et al., "The Conference Assistant: Combining Context-Awareness with Wearable Computing," <i>3rd International Symposium on Wearable Computers</i> , San Francisco, CA, October 18-19, 1999.
TH	DO	Finger et al., "Rapid Design and Manufacture of Wearable Computer," <i>Communications of the ACM</i> 39(2):63-68, February 1996.
TH	DP	Golding, A., et al., "Indoor Navigation Using a Diverse Set of Cheap, Wearable Sensors," <i>3rd International Symposium on Wearable Computers</i> , San Francisco, CA, October 18-19, 1999.

EXAMINER <i>Todd A. H.</i>	DATE CONSIDERED <i>3/2/07</i>
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TH	EA	6,127,990	10/03/00	Zwern	345	8	
	EB	6,294,953	09/25/01	Steeves	329	341	
	EC	6,405,159	06/11/02	Bushey et al.	703	13	
	ED	09/724,777		Abbott et al.			11/28/00
	EE	09/724,799		Abbott et al.			11/28/00
	EF	09/724,892		Abbott et al.			11/28/00
	EG	09/724,893		Abbott et al.			11/28/00
	EH	09/724,894		Abbott et al.			11/28/00
	EI	09/724,902		Abbott et al.			11/28/00
↓	EJ	09/724,949		Abbott et al.			11/28/00

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	EK				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

TH	EL	Goh et al., "Context Interchange: New Features and Formalisms for the Intelligent Integration of Formation," ACM Transactions on Information Systems, 1997.
TH	EM	Hull et al., "Towards Situated Computing," Hewlett-Packard Laboratories, HPL-97-66 (1997).
TH	EN	Jakobovits, R., "Integrating Autonomous Heterogenous Information Sources," July 15, 1997.
TH	EO	Kirsch, D., "The Sentic Mouse: A Tool for Measuring Emotional Valence," <a href="http://www.media.mit.edu/affect/AC_research/projects/sentic_mouse.html">http://www.media.mit.edu/affect/AC_research/projects/sentic_mouse.html</a> , pp. 1-2 [Accessed October 2, 1998].
TH	EP	Kortuen et al., "Context -Aware, Adaptive Wearable Computers as Remote Interfaces to 'Intelligent' Environments," University of Oregon, October 1998.

EXAMINER <i>Todese Hul</i>	DATE CONSIDERED 3/2/07
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	FA						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	FB					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

TH	FC		Kortuen, G., "When Cyborgs Meet: Building Communities of Cooperating Wearable Agents," <i>3<sup>rd</sup> International Symposium on Wearable Computers</i> , San Francisco, CA, October 18-19, 1999.
TH	FD		Lashkari, Y., et al., "Collaborative Interface Agents," <i>Proceedings of AAAI '94 Conference</i> , Seattle, WA, August 1994.
TH	FE		Lehikoinen, J., et al., "MEX: A Distributed Software Architecture for Wearable Computers," <i>3<sup>rd</sup> International Symposium on Wearable Computers</i> , San Francisco, CA, October 18-19, 1999.
TH	FF		Leonhardi, A., et al., "Virtual Information Towers - A Metaphor for Intuitive, Location-Aware Information Access in a Mobile Environment," <i>3<sup>rd</sup> International Symposium on Wearable Computers</i> , San Francisco, CA, October 18-19, 1999.
TH	FG		Lunt, T., et al., "Knowledge-Based Intrusion Detection," <i>Proceedings of the Annual Artificial Intelligence Systems in Government Conference</i> , IEEE Comp. Soc. Press, vol. Conf. 4, 1989, pp. 102-107.
TH	FH		Maes, P., "Agents that Reduce Work and Information Overload," <i>Communications of the ACM</i> 37(7), July 1994.
TH	FI		Mann, S., "Smart Clothing: Wearable Multimedia Computing and Personal Imaging to Restore the Technological Balance Between People and Their Environments," <i>ACM Multimedia</i> , pp. 163-174, November 1996.
TH	FJ		Metz, C., "MIT: Wearable PC's, Electronic Ink, and Smart Rooms," <i>PC Magazine</i> , pp. 192-193, June 1998.
TH	FK		Oakes, C., "The Truman Show Realized?," <a href="http://www.wired.com/news/news/technology/story/15745.html">http://www.wired.com/news/news/technology/story/15745.html</a> , pp. 1-4 [Accessed October 21, 1998].

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## U.S. PATENT DOCUMENTS

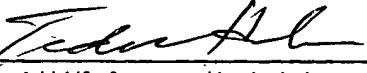
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	GA						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	GB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

TH	GC	Pillard, R., et al., "Affective Wearables," <i>Personal Technologies</i> 1:231-240, MIT Media Laboratory, 1997.
TH	GD	Rekimoto et al., "The World Through the Computer: Computer Augmented Interaction with Real World Environments," <i>ACM</i> , pp. 29-36, November 1995.
TH	GE	Rhodes, B., "The Wearable Remembrance Agent: A System for Augmented Memory," <i>Proceedings of the First International Symposium on Wearable Computers (ISW '97)</i> , Cambridge, MA, October 13-14, 1997.
TH	GF	Rhodes, B., "WIMP Interface Consideres Fatal," <a href="http://rhodes.www.media.mit.edu/people/rhodes/Papers/no-wimp.html">http://rhodes.www.media.mit.edu/people/rhodes/Papers/no-wimp.html</a> , pp. 1-3 [Accessed October 2, 1998].
TH	GG	Sato, J., et al., "Autonomous Behavior Control of Virtual Actors Based on the AIR Model," <i>Proceedings Computer Animation</i> , June 5, 1997.
TH	GH	Schmidt et al., "There is more to Context than Location: Environment Sensing Technologies for Adaptive Mobile User Interfaces," November 1998.
TH	GI	Schneider, J., et al., "Modeling Wearable Negotiation in an Opportunistic Task Oriented Domain," <i>3<sup>rd</sup> International Symposium on Wearable Computers</i> , San Francisco, CA, October 18-19, 1999.
TH	GJ	Smailagic et al., "Matching Interface Design with User Task: Modalities of Interaction with CMU Wearable Computers," <i>IEEE Personal Communications</i> , pp. 14-25, February 1996.
TH	GK	Smailagic, A., et al., "MoCCA: A Mobile Communications and Computing Architecture," <i>3<sup>rd</sup> International Symposium on Wearable Computers</i> , San Francisco, CA, October 18-19, 1999.

EXAMINER 	DATE CONSIDERED 3/2/07
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	HA						
	HB						
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	HD						
	HE						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	HF				
	HG				
	HH				
	HI				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

TA	HJ	Starner et al., "Visual Contextual Awareness in Wearable Computing," Media Lab, MIT, October 1998.
TH	HK	Tan, H., et al., "Tactual Displays for Wearable Computing," IEEE, Massachusetts Institute of Technology Media Laboratory, pp. 84-88, 1997.
TH	HL	Yang, J., et al., "Smart Sight: A Tourist Assistant System," 3 <sup>rd</sup> International Symposium on Wearable Computers, San Francisco, CA, October 18-19, 1999.
	HM	
	HN	
	HO	
	HP	
	HQ	
	HR	

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